

45509



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Paul D. Marko et al.

Serial No.: 10/621,398

Filed: July 18, 2003

For: METHOD AND APPARATUS FOR
CONCATENATED CONVOLUTIONAL
ENCODING AND INTERLEAVING

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Group Art Unit: 2661

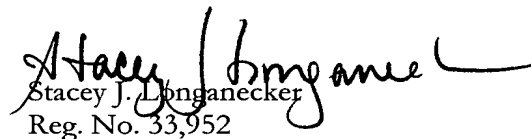
INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith for consideration by the Examiner pursuant to 37 C.F.R. §§1.56, 1.97 and 1.98 are the items listed in the attached Form PTO-1449. The Examiner's consideration and acknowledgement of these items is respectfully requested. Copies of several of these items are being omitted pursuant to 37 C.F.R. 1.198(d) since these items were listed in earlier U.S. patent application Serial No. 09/688,824, filed October 17, 2000, and/or U.S. patent application Serial No. 09/318,938, filed May 26, 1999, the domestic priority data for which are claimed by Applicants.

Respectfully Submitted,


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Dated: 18 November 2003

Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 45509		SERIAL NO. 10/621,398								
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				APPLICANT Paul D. Marko et al.		GROUP 2661								
				FILING DATE July 18, 2003										
U. S. PATENT DOCUMENTS														
EXAMINER INITIAL		DOCUMENT NUMBER			DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE					
		4	4	2	9	3	9	0	1/1984	Sonoda et al.	714	762		
		4	6	2	2	5	9	8	11/1986	Doi et al.	360	22		
		4	8	8	1	2	4	1	11/1989	Pommier et al.	375	260		
		5	1	9	1	5	7	6	3/1993	Pommier et al.	370	18		
		5	1	9	7	0	6	1	3/1993	Halbert-Lassalle et al.	370	11		
		5	2	2	8	0	2	5	7/1993	Le Floch et al.	370	206		
		5	2	4	1	5	6	3	8/1993	Paik et al.	375	262		
		5	2	7	8	8	6	3	1/1994	Briskman	375	130		
		5	2	8	3	7	8	0	2/1994	Schuchman et al.	370	50		
		5	3	0	5	3	5	3	4/1994	Weerackody	375	347		
		5	3	1	9	6	7	3	6/1994	Briskman	455	13.1		
		5	4	8	5	4	8	5	1/1996	Briskman et al.	375	130		
		5	5	9	2	4	7	1	1/1997	Briskman	455	506		
		5	7	2	0	0	3	9	2/1998	Lieberman	455	10		
		5	7	4	5	4	9	7	4/1998	Ben-Efraim et al.	714	202		
FOREIGN PATENT DOCUMENTS														
		DOCUMENT NUMBER			DATE			COUNTRY		CLASS	SUBCLASS	TRANSLATION YES NO		
		0	0	3	6	7	8	3	6/2000	WIPO	H04L	1/06		
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)														
		Kallel, Samir, "Complementary Punctured Convolutional (CPC) Codes and Their Applications", IEEE Transactions on Communications, vol. 43, No. 6, Jun. 1995, pp. 2005-2009.												
		Cain, J. Bibb, "Punctured Convolutional Codes of Rate (n-1)/n and Simplified Maximum Likelihood Decoding", IEEE Transactions on Information Theory, vol. IT-25, No. 1, Jan. 1979, pp. 97-100.												
		D. Kail, "Direct Radio Broadcasting By Satellite (DRBS): A Review of the Technical Factors and System Approaches Suitable for Mobile and Fixed Reception", BBC RD Apr. 1989, pp. 1-22 © British Broadcasting Corporation 1989).												
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw Line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.														



Form PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	INVENTOR. DOCKET NO. 45509	SERIAL NO. 10/621,398
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		APPLICANT Paul D. Marko et al.	
		FILING DATE July 18, 2003	GROUP 2661

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5	7	4	5	8	3	9	4/1998	Lieberman	455	10	
		5	7	9	4	1	3	8	8/1998	Briskman	455	344	
		5	8	4	8	1	0	3	12/1998	Weerackody	375	295	
		5	8	6	4	5	7	9	1/1999	Briskman	375	130	
		5	9	0	7	5	8	2	5/1999	Yi	375	259	
		5	9	1	0	9	6	7	6/1999	Vanderaar	375	265	
		6	0	8	4	8	6	5	7/2000	Dent	370	321	
		6	1	5	4	4	5	2	11/2000	Marko et al.	370	321	
		6	1	5	8	0	4	1	12/2000	Raleigh et al.	714	792	
		6	1	7	8	3	1	7	1/2001	Kroeger et al.	455	296	
		6	2	2	9	8	2	4	5/2001	Marko	370	477	
		6	2	4	7	1	5	2	6/2001	Smallcomb	714	786	
		6	2	5	9	8	9	3	7/2001	Kroeger et al.	455	61	
		6	3	1	7	4	7	0	11/2001	Kroeger et al.	375	340	
		6	3	4	5	3	7	7	2/2002	Kroeger et al.	714	790	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

		Kroeger et al., "Robust modem and coating techniques for FM Hybrid IBOC DAB," IEEE Transactions on Broadcasting, vol. 43, No. 4, Dec. 1997, pp. 412-420.

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